

Research Insights in Semiarid Ecosystems RISE

**Recent research at the USDA-ARS Walnut Gulch Experimental
Watershed (WGEW) and the University of Arizona Santa Rita
Experimental Range (SRER)**



RISE Program

**University of Arizona, Tucson, Marley Building, Rm. 230
Saturday, 13 November 2004, 9AM to 4:30PM
Post-symposium BBQ, UA Mall, 4:30-6:30 PM**

Purpose: The objectives of the symposium are to share recent results of scientific research at WGEW and SRER, to encourage future research activities at the WGEW and the SRER, and to promote the WGEW and the SRER as outdoor scientific laboratories.

Research Insights in Semiarid Ecosystems (RISE) Symposium 13 November 2004

Marley Building, Room 230

8:30-9:00	Registration	
9:00-9:10	Mitch McClaran Susan Moran	RISE Welcome
9:10-9:30	Steve Archer UA SNR	TBA
9:30-9:50	Judith Bronstein UA EEB	Linking plant and insect physiology in the <i>Datura wrightii</i> - <i>Manduca sexta</i> interaction
9:50-10:10	Dave Goodrich USDA ARS SWRC	Selected Research from the WGEW and looking to the Future
10:10-10:30	Poster introductions	Poster teasers provided by poster authors
10:30-11:10	Poster Session I	Authors will be with their posters in the hall outside the conference room
11:10-11:30	Dean Martens USDA ARS SWRC	Impacts of grazing and shrub management on hydrologic attributes in semi-arid rangelands
11:30-11:50	Alfredo Huete UA SWES	Seasonal and interannual patterns of carbon and moisture variability with combined AVIRIS and MODIS satellite observations
11:50-1:00	Lunch on your own	A food court is nearby in the UA Memorial Union
1:00-1:20	Travis Huxman UA EEB	Controls over carbon and water fluxes by vegetation, soils and climate
1:20-1:40	Leonard Lane USDA ARS (ret)	Proposed adaptive management experiments on small semiarid watersheds
1:40-2:00	Russ Scott USDA ARS SWRC	The differential response of transpiration and bare-soil evaporation to precipitation and their relation to carbon dioxide fluxes in a Chihuahuan Desert shrubland
2:00-2:20	Poster introductions	Poster teasers provided by poster authors
2:30-3:10	Poster Session II	Authors will be with their posters in the hall outside the conference room
3:10-3:30	Mark Nearing USDA ARS SWRC	Sediment tracer studies at Walnut Gulch Experimental Watershed
3:30-3:50	Mary Nichols USDA ARS SWRC	Sediment transport in low-order channels on the Walnut Gulch Experimental Watershed
3:50-4:10	Kris Havstad USDA ARS JER	Synthesis and implications of 90 years of science at the Jornada
4:10-4:30	Discussion	All speakers and poster authors will be in attendance

Bar-B-Que on the UA Mall 4:30-6:30

RISE Organizing Committee:

Mark Heitlinger, Mary Nichols, Mitch McClaran, Susan Moran

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Acronyms

ARS: Agricultural Research Service

EEB: Ecology and Evolutionary Biology

JER: Jornada Experimental Range

SNR: School of Natural Resources

SWES: Soil, Water and Environmental Science

SWRC: Southwest Watershed Research Center